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Code No: 844AB

protocols.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, April/May - 2019 LINUX PROGRAMMING

Time: 3hrs Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A		
$5 \times 5 \text{ Marks} = 25$		
1.a)	Write short notes on file name substitution and command substitution.	[5]
b)	Explain in detail about stat family.	[5]
c)	Write a program to illustrate zombie process.	[5]
d)	Explain briefly about the types of Inter Process Communication.	
	· · · · · · · · · · · · · · · · · · ·	[5]
e)	Briefly discuss about the socket options.	[5]
PART - B		
$5 \times 10 \text{ Marks} = 50$		
2.a)	Write short notes on shell responsibilities.	
b)	Write a shell script to find the factorial of a given number.	[5+5]
,	OR	
3.a)	Write short notes on interrupt processing in shell.	
b)	Write a shell script to list all the directories and files in the current directory.	[5+5]
U)	write a shell script to list all the directories and mes in the current directory.	
4.a)	Write short notes on scalar in Perl and their operations.	
b)	Explain pattern matching with an example.	[5+5]
-/	OR	[]
5.a)	Explain the concept of kernel support for files.	
b)	Write a program to check and report file descriptors of all opened files.	[5+5]
٥,	will a program to the manager in a second in the second in	[0.0]
6.a)	Explain in brief the kernel support for signals.	
b)	Write about alarm and pause functions with example.	[5+5]
0)	OR	
7.a)	What is meant by process termination? Explain the various types of p	rocess
,,	terminations with suitable example.	10000
b)	Write short notes on process attributes.	[5+5]
0)	write short notes on process attributes.	
8.	Explain in detail about the process of reading and writing a message from an	d to a
·.	message queue.	[10]
	OR	[10]
9.a)	Explain about inter process communication using pipes.	
,		[5 5]
b)	Explain popen() and pclose() functions with suitable examples.	[5+5]
10.a)	Explain about the semget(), semop(), and semctl() functions.	
b)	Explain about the kernel support for shared memory.	[5+5]
OR		
11.	What are Linux Sockets? Write about connection oriented and connecti	onless
	The second secon	